National Electronic Equipment Mangement & Compliance Assistance Workshop

September 23-24, 2002 in Atlanta

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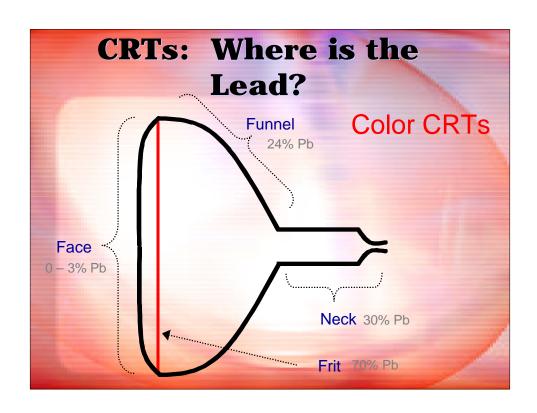
Why Are We Concerned With Electronics?



- 20 Million personal computers become obsolete in 1998
- Only 13% were reused or recycled
- By 2005, 250 Million will become obsolete

More Concerns

- Retain little or no resale value
- May become subject to landfill bans
- Decrease in product life cycles
- Difficult and costly to disassemble for reuse and recycling
- Contain hazardous materials lead, mercury, hexavalent chromium, brominated flame retardents



EPA's Approach

- Regulatory Streamlining
- Research
- Education
- Product Stewardship
 - -NEPSI Multi-stakeholder
 Discussions
 - -Partnership on Design

NEW Proposed CRT Rule

- To encourage greater reuse, recycling and better management of cathode ray tubes (CRTs): a rapidly growing waste stream.
- Rationale: encourage collection, glass-to-glass recycling and better management.
- EPA's proposed rule: **important first step** in dealing with issues posed by end-of-life electronics.



NOT Regulated

- Households: may send used monitors to any collector for recycling or disposal.
- **CESQGs**: Non-residential generators of less than 100 kg. per month (about 7 or 8 computers) are not subject to most Subtitle C standards.
- User who sends CRTs to a collector or reseller for **potential reuse or repair**: if the CRTs may be reused, they are products, not wastes.

Not Regulated continued....

- Intact, off-spec CRTs sent for recycling: these are products, not wastes.
- Non-CRT electronic materials:
 - Whole used circuit boards and shredded circuit boards are <u>not</u> regulated.
 - Other electronics: No reason to think these are hazardous, but EPA is examining.

Regulated With Streamlined Requirements:

- Used Broken CRTs Sent for Recycling
 - "Conditionally excluded" if they comply with universal waste-type packaging and labeling requirements for storage and shipment.
 - No speculative accumulation.

Regulated With Streamlined Requirements

continued...

Glass Processors

- Must store broken CRTs indoors or in accordance with universal wastetype packaging and labeling, no speculative accumulation.
- May not use temperatures high enough to volatilize lead.

Regulated With Streamlined Requirements

continued...

Processed Glass:

- If sent to a glass-to-glass manufacturer or lead smelter, not regulated.
- If sent to other kinds of recycling, must comply with universal waste-type packaging and labeling.
- No speculative accumulation.

Regulated under <u>FULL</u> Subtitle C

Disposal in a landfill or incinerator, unless the disposer is a household or a CESQG.

Summary of Comments

- Overall
 - Industry is pro-exemption
 - States/NGOs are pro-Universal Waste Rule
- States concerns include:
 - speculative accumulation (stockpiling)
 - already include CRT under their UWR
 - lack of standards and less monitoring
 - decreases incentive for green product design

More on Comments.....

- Misc. concerns all representatives:
 - Giving exclusions to only glass-to-glass and smelters
 - Disposal loopholes for small businesses and households
 - Market concerns
 - Circuit boards should be hazardous waste
 - Definitions used, broken, CRT
- EXPORTS



EPA: Research

- Region 4 and 5 Partnership to fund further research at the University of Florida
- Looking beyond the CRT
- Whole monitors, CPU, peripherals
- Spurred other interests at UofF
 - VCRs, Cell Phones, etc.

EPA:Education

- Electronics Fact Sheets
 - www.epa.gov/epr/products/efed.html
 - www.epa.gov/wastewise/wrr/updates.htm
- Electronic Workshops/Conferences
 - Region 4 Hosting National
 Compliance Assistance Workshops in
 Atlanta on September 22-23
 - Region 4 Hosting Mobile, Alabama
 Compliance Assistance Workshop and
 Collection Event on Nov. 14-15

Key Web Sites

- EPA
 - -WasteWise www.epa.gov/wastewise
 - -Extend Products Responsibility (EPR) www.epa.gov/epr
 - Design for the Environment (DfE)www.epa.gov/dfe
- SWIX www.ElectronicXchange.org
- University of Flordia
 - Www.enveng.ufl.edu/homepp/townsend/ research/CRT/CRTMain.html

More Key Websites.....

- Florida DEP
 - www.dep.state.fl.us/waste/categories/ electronics
- Georgia P2 Assistance Division
 - www.dnr.state.ga.us/p2ad/comp_recycle.html
- North Carolina Division P2 and Environmental Asst.
 - www.p2pays.org/electronics/
- Electronics Industry Association Consumer Education Initiative
 - www.eiae.org
- National Cristina Foundation
 - www.cristina.org

More Key Websites.....

- Share the Technology
 - www.sharetechnology.org/
- Silicon Valley Toxics Coalition
 - www.svtc.org/
- International Association of Electronics Recyclers (IAER) - www.iaer.org
- Students Recycling Used Technology
 - www.strut.org
- Learning and Information Networking for Community via Technology
 - www.linct.org
- ElectronicsRecycling.org
 - www.electronicsrecycling.org

Conclusion

- Continue to focus on toxicity issues
- NESPI dialogue Federal legislation?
- More focus on export issues
- Electronics industry greener design?
- Retails, thrifts and charities will continue to show increased their interest.
- Still a Moving Target: Proliferation of new products, throw always and technology is changing
- More public concern, push for 'greener' design and recycling options



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